

1 (C) AMENDMENTS TO THE CLAIMS

2 1. (Currently Amended) A model for compiling a specification of a process  
3 definition comprising:

4 service nodes, wherein each of said service nodes is a representation of a  
5 consumer service; ~~[[and]]~~

6 a first flow diagram sequencing said service nodes as a representation of the  
7 process definition; and

8 method nodes, wherein each of said method nodes is a representation of  
9 executable operations inherent to a consumer service represented by one of said  
10 service nodes.

11 2. (Canceled)

12 3. (Currently Amended) The model as set forth in claim ~~[[2]]~~ 1 further comprising:

13 wherein each of said service nodes is expandable into a second flow diagram of  
14 method nodes.

15 4. (Original) The model as set forth in claim 1 wherein each of said service nodes  
16 is executed by accessing an electronic service registered on an electronic service  
17 platform.

18 5. (Original) The model as set forth in claim 1 wherein each of said service nodes  
19 comprises:

20 consumer service-level properties.

21 6. (Original) The model as set forth in claim 5 wherein said consumer service-level  
22 properties comprises:

a service search recipe or service selection rule.

7. (Original) The model as set forth in claim 5 wherein said consumer service-level properties comprises:

a service reuse.

8. (Original) The model as set forth in claim 5 wherein said consumer service-level properties comprises:

a service-inherent method flow.

9. (Original) The model as set forth in claim 1 wherein each of said service nodes comprises:

consumer authentication properties.

10. (Original) The model as set forth in claim 1 wherein each of said service nodes comprises:

consumer and service certification properties.

11. (Original) The model as set forth in claim 1 wherein each of said service nodes comprises:

service-level exception handling rules.

12. (Original) The model as set forth in claim 1 wherein each of said service nodes comprises:

the definition of interaction flow, defining how the interaction with the service is conducted.

13. (Currently Amended) The model as set forth in claim ~~[[2]]~~ 1 wherein each of said method nodes comprises:

1            representations of a service operation including operations executed within the  
2 context of ~~[[an electronic service]]~~ at least one of said service nodes registered with a  
3 electronic services platform.

4        14.    (Original) The model as set forth in claim 13 each of said method nodes further  
5 comprises:  
6            the service operation to call.

7        15.    (Original) The model as set forth in claim 13 each of said method nodes further  
8 comprises:  
9            invocations for a specific operation of the method node.

10       16.    (Original) The model as set forth in claim 13 each of said method nodes further  
11 comprises:  
12           input data, including formatting and handling specifications.

13       17.    (Original) The model as set forth in claim 13 each of said method nodes further  
14 comprises:  
15           output data, including formatting and handling specifications.

16       18.    (Original) The model as set forth in claim 13 each of said method nodes further  
17 comprises:  
18           method-level exception handling rules.

19       19.    (Original) The model as set forth in claim 1 wherein said specification is a  
20 composition of individual electronic services.

21       20.    (Original) The model as set forth in claim 1 applied in a distributed computer  
22 network environment.

1        21.     (Original) The model as set forth in claim 1 wherein said process is a workflow.

2        22.     (Original) The model as set forth in claim 1 wherein said process is a composite  
3        electronic service.

4        23.     (Currently Amended) A computer tool for compiling a specification of a process  
5        comprising:

6                computer code for representing a plurality of individual services as service  
7        nodes, wherein each of said service nodes is representative of a respective service  
8        invocation setup phase for each of the individual services; and

9                computer code for compiling a set of the service nodes into a composite service  
10        forming a generically defined flow for said process.

11       24.     (Original) The computer tool as set forth in claim 23 comprising:

12                said service nodes are expandable into method nodes, wherein method nodes  
13        are representative of at least one respective operation inherent to a respective one of  
14        the individual services which is expanded thereto.

15       25.     (Original) The computer tool as set forth in claim 24 comprising:

16                said method nodes represent a plurality of inherent executable operations  
17        associated with a respectively associated one of the individual services.

18       26.     (Original) The computer tool as set forth in claim 23 comprising:

19                each said service nodes provides executable functions related to setting up  
20        communication with each of said individual services.

21       27.     (Original) The computer tool as set forth in claim 23 comprising:

1 the composite service is a service node flow specifying generic functionalities  
2 common to said process.

3 28. (Original) A computer tool for compiling a specification of a process and  
4 executing the specification of the process comprising:

5 computer code for representing a plurality of individual services as service  
6 nodes, wherein each of said service nodes is representative of a respective service  
7 invocation setup phase for each of the individual services;

8 computer code for compiling a set of the service nodes into a composite service  
9 forming a generically defined flow of said process;

10 computer code for executing the specification of the process represented by the  
11 generically defined flow by expanding each node of said set of the service nodes into  
12 method nodes, invoking functionalities of the individual services thereby, wherein each  
13 of said method nodes represent a plurality of inherent executable operations associated  
14 with a respectively associated one of the individual services.

15 29. (Original) A method for structuring individual electronic services registered on an  
16 electronic service platform, the method comprising:

17 providing a top level having service nodes representative of extracted common  
18 elements of the composite service;

19 providing a subsidiary level, wherein said service nodes are expanded into  
20 method nodes for execution of specific operations inherent to a respective electronic  
21 service represented thereby; and

22 providing linking nodes in the top level for connecting said service nodes into a  
23 process flow, wherein said flow forms a hierarchical specification having a sequential  
24 series of said individual electronic services.

25 30. (Original) The method as set forth in claim 29 further comprising:  
26 providing event nodes.

1        31.     (Original) The method as set forth in claim 30 in an internet environment.

2        32.     (Original) The method as set forth in claim 31 further comprising:  
3                executing a process for providing electronic services over the internet  
4        environment by executing the hierarchical specification.

5        33.     (Original) A method of executing a given composite process, defined as  
6        including a plurality of individual electronic services registered on an electronic services  
7        platform, the method comprising:  
8                segregating generic electronic services common to the given composite process  
9        from operations respectively inherent to each of said generic electronic services;  
10               compiling a composite process flow using said generic electronic services; and  
11               invoking each operations functionalities of each of said generic electronic  
12        services by expansion of each of said generic electronic services into said operations  
13        only as needed to continue said composite process.

14       34.     (Original) The method as set forth in claim 33, said compiling further comprising:  
15               compiling a plurality of the individual electronic services as associated with a  
16        search for data associated with said given composite process having at least one  
17        requirement from each of said individual generic electronic services.

18       35.     (Original) The method as set forth in claim 33, said compiling further comprising:  
19               compiling a composite process definition as a sequential series of service nodes,  
20        wherein each said service node is a specification related to invoking communications  
21        with a specific one of said service nodes.

22       36.     (Original) The method as set forth in claim 35 said executing further comprising:

1 including method nodes for each of said service nodes wherein said method  
2 nodes are invocations of operations inherent with an associated one of the generic  
3 electronic services.

4 37. (Original) A computer tool for composing electronic service searching runtime  
5 criteria comprising:

6 computer code for structuring a plurality of service nodes, wherein each of said  
7 service nodes is representative of a generic service and includes only those criteria  
8 essential to invoking said service;

9 computer code for invoking a plurality of method nodes, wherein a set of method  
10 nodes is representative of operations inherent to an associated one of said service  
11 nodes; and

12 computer code for linking nodes sequencing said service nodes into a coherent  
13 flow representative of a composite service including more than one generic service.

14 38. (Original) The tool as set forth in claim 37 comprising;  
15 computer code for handling event nodes.